

uPASS Go

long-range UHF reader for vehicle identification

Key features:

- ✓ automatic vehicle identification
- ✓ read range up to 10 meters* (33 feet)
- ✓ operates with passive UHF tags (EPC Gen 2)
- ✓ supports variety of communication protocols
- ✓ easy installation and maintenance
- ✓ robust reader for outdoor use



The uPASS Go is a UHF RFID reader for long-range vehicle identification. Based on passive UHF technology, vehicles are identified up to 10 meters* (33 feet). The uPASS Go complies with the ISO18000-6C and EPC Gen 2 directive.

As the uPASS Go is used in combination with battery free UHF (EPC Gen 2) tags, the solution is cost efficient. It is ideal for convenient vehicle access to car parks, gated communities and staff parking areas.

Communication interfaces

The uPASS Go supports a variety of industry-standard communication interfaces, such as RS485, Ethernet, Wiegand and clock & data. This enables seamless integration into any existing or new access control or parking system. Existing proximity Wiegand reader installations can be upgraded without additional wiring.

OSDP capability

The uPASS Go UHF RFID reader supports the Open Supervised Device Protocol (OSDP v2) for automatic vehicle identification applications. OSDP enables advanced and secure channel communication between the uPASS UHF RFID reader and the controller.

TCP-IP protocols supported

Connecting the uPASS Go reader over the Ethernet interface offers the possibility to support TCP-IP. This opens up new possibilities to perform remote configurations and updates with the user friendly online configuration interface.

Easy installation

Featuring a slim housing, the uPASS Go fits perfectly in any vehicle gate environment. The reader can be installed with the supplied mounting set on an entry pedestal or wall near the barrier. With the optional mount set extension it can be mounted on a wall or ceiling in every possible angle for an optimal read area. The service hatch offers convenient access to the interfaces for installation and maintenance.

Built for outdoor use at the perimeter

The reader features a weather resistant housing and is fully operable in $-30...+60^{\circ}\text{C}$ ($-22...+140^{\circ}\text{F}$), which means it can withstand the harshest outdoor environments. When exposed to extreme sunny conditions it is recommended to apply the optional weather protection hood. As the reader is typically positioned at the perimeter it has a tamper switch to immediately provide tamper indication.

Convenience for the driver

With the circular antenna polarization the tag orientation on the windshield becomes irrelevant as long as the tag is in line of sight for the reader. Especially convenient for cars with metalized windshields with only a small area without metal. The built-in beeper and high intensity LED provide audible and visual feedback on the identification of a tag in all operating modes.

** In combination with UHF Windshield Tag. The maximum read range depends on identifier type, the installation and environment.*

Technical specifications	uPASS Go
Part number	9234195 - NVR2002
Dimensions	240 x 225 x 71 mm (9.4 x 8.8 x 2.8 in.)
Color	RAL7016 cover / RAL9006 chassis
Weight	1 kg (2.20 lbs)
Protection class	IP66 (NEMA4x)
Material	UL ASA+PC chassis and cover
Operating temperature	-30...+60°C (-22...+140°F)
Storage temperature	-30...+60°C (-22...+140°F)
Relative humidity	10% ... 93% relative humidity, non-condensing
Power supply	24VDC recommended, for 12VDC see wiring preconditions 12-24VDC ±10% linear supply
Power consumption	0.5A@24VDC; 1A@12VDC
Power supply wiring	Max. 50 meter (150 ft), min. AWG23/0.25mm ² @24VDC Max. 5 meter (15 ft), min AWG26/0.15mm ² @12VDC
Read range	Up to 10 meters (33 feet) with UHF Windshield Tag
Operating frequency	865-928 MHz - set to regional requirements and restrictions
Antenna polarization	Circular
Air interface	According to ISO 18000-6 C; EPC Gen 2
Communication interfaces	Wiegand, RS485, Ethernet 10/100Mbps and USB-C service interface
Communication protocols	OSDP v2, including secure channel communication, TCP-IP, CR/LF and various OEM protocols (see uPASS firmware guide for more information)
Relay output	1 relay output (NO, common, NC), 24 VDC 2A
Input	Read disable input; 3 x TTL general purpose inputs
Output	Wiegand, Magstripe (clock & data)
Cable specifications	Wiegand - 150 m (500 ft.) 22AWG
Tamper switch	Magnetic switch, normally closed
Standards	CE, FCC, UL, IC, ACMA, R-NZ Consult your Nedap representative for country specific standards
Optional accessories	9567593 Mount Set Extension 9567658 Weather Protection Hood
Document version nr.	1.0